PBAT

J2 J1

VR3 VR5

R3

U2

VR3

C5

C9

R4

C6 C10

DS2

U3

R2

DS1

R1

VR2

VR4

VR1

U1

C4 C3 C8

C2 C1

C7

RED
DRAGONS

Item #	Designator	Description	Comment	Quantity	lumn Name Error:' Manufactu	nn Name Error:' Manufacturer Part Nu	Footprint	LibRef	#Column Name Error:' Note
1	C1	General Purpose Ceramic Capacitor, 0805, 330nF, 10%, X7R, 15%, 16V	330nF	1			FP-0805-L_2_01_0_2-W_1_25-IPC_B	CMP-2007-04657-2	
2	C2		100nF	1			CAPC2013X140X50LL20T25	CMP-2007-04746-1	
3	C3, C4, C5, C6, C7, C8, C9, C10	Chip Capacitor, 10 uF, +/- 10%, 16 V, 0805 (2012 Metric)	Capacitor 10 uF +/- 10% 16 V 0805	8			CAPC2013X135X45NL10T25	CMP-001-00015-6	
4	DS1, DS2	LED Uni-Color Orange, 75 mW, 30 mA, -35 to 85 degC, 2-Pin SMD, RoHS, Tape and Reel	LTST-C190KFKT	2			LTST-C190KFKT_V	CMP-007-00023-2	
5	J1, J2	Male Header, Pitch 1 mm, 1 x 6 Position, Height 2.95 mm, -25 to 85 degC, RoHS, Tape and Reel	JST-SH-6Pin	2			JST-SM06B-SRSS-TB_V	CMP-2000-07080-1	
6	PBAT	Male Header, Pitch 2 mm, 1 x 2 Position, Height 6 mm, Tail Length 3.4 mm, -25 to 85 degC, RoHS, Bulk	JST PH 2-PIN	1			JST-B2B-PH-K-S_V	CMP-2000-05162-1	
7	R1, R2		ERA6AEB101V	2			RESC2013X60X40ML20T25	CMP-2001-00580-1	
8	R3	Thick Film Chip Resistors 0805 22kΩ 0.125W 5% 200ppm/°C	22k	1			FP-CR0805-IPC_B	CMP-07231-001007-1	
9	R4	Chip Resistor, 10 KOhm, +/- 1%, 125 mW, -55 to 155 degC, 0805 (2012 Metric)	Resistor 10k +/-1% 0805 125 mW	1			RESC2013X50X35ML15T15	CMP-009-00018-5	
10	U1	Dual core, Wi-Fi: 2.4 GHz up to 150 Mbits/s,BLE (Bluetooth Low Energy) and legacy Bluetooth, 32 bits, Up to 240 MHz	ESP32-DEVKIT-V1	1			MODULE_ESP32_DEVKIT_V1	ESP32-DEVKIT-V1	
11	U2	4-Channel Motor Driver 24V 16-Pin Power PDIP Tube	L293D	1			DIP880W50P254L2000H510Q16	L293D	
12	U3	4-ch, 2-input, 2-V to 6-V XOR (exclusive OR) gates 14-PDIP -40 to 85	SN74HC86N	1			N0014A	CMP-024-00000-1	
13	VR1		AMS1117-5.0	1			SOT229P700X180-4N	AMS1117-5.0	
14	VR2, VR3, VR4, VR5	Sot223/Pkg 1-Amp 3.3-Volt Low Drop Out Voltage Regulatator	AMS1117-3.3	4			SOT229P700X180-4N	AMS1117-3.3	